

I. Amendments to the Claims

This listing of claims shall replace all prior versions, and listings, of claims in the application.

Listing of Claims

Claim 1. (Currently Amended) A method of inducing structural damage in a target cell comprising the steps of:

providing particles comprising one or more nanoparticles of magnetic material;

contacting the particles with the target cell; and

applying an AC magnetic field with a frequency in the range of 1 Hz to 500 Hz to the particles to induce motion of the particles, whereby the motion of the particles in contact with the target cell inflicts structural damage to the target cell.

2. (Previously Presented) The method of claim 1 wherein the structural damage of the target cell results in destruction of the target cell.

3. (Currently Amended) The method of claim 1 wherein the particles further comprise medication, wherein the medication is delivered to the target cell upon ~~and~~ the application of the magnetic field.

4. (Original) The method of claim 3 wherein the medication comprises a cytotoxin.

5. (Original) The method of claim 1 wherein the particles comprise magnetic nanoparticles coated with bio-compatible material.
6. (Original) The method of claim 5 wherein the bio-compatible material comprises a material selected from the group consisting of bio-compatible polymers, dextran, silicon oxide and gold.
7. (Previously Presented) The method of claim 1 wherein the particles are introduced into a medium containing the target cell via injection.
8. (Previously Presented) The method of claim 1 wherein the particles further comprise one or more targeting molecules.
9. (Original) The method of claim 8 wherein the targeting molecules comprise an antibody or a peptide.
10. (Previously Presented) The method of claim 1 wherein the particles are contacted with the target cell by directing the particles to the target cell by magnetic navigation.
11. (Previously Presented) The method of claim 1 wherein the particles are contacted with the target cell by directing the particles to the target cell by magnetic transfection.

12. (Previously Presented) The method of claim 1 wherein the particles are attached to molecules to stimulate endocytosis of the target cell.
13. (Previously Presented) The method of claim 1 wherein the nanoparticles of magnetic material are elongated along one dimension and the magnetic field rotates the nanoparticles to structurally damage the target cell.
14. (Cancelled)
15. (Previously Presented) The method of claim 1 wherein the magnetic field laterally oscillates the nanoparticles to structurally damage the target cell.
16. (Currently Amended) The method of claim 1 wherein the particles comprise a heat sensitive reservoir of medication and the method further comprises an application of the a second magnetic field to the nanoparticles provides heat to effect delivery of the medication.
17. (Currently Amended) The method of claim 16 wherein the second magnetic field is an AC magnetic field at a frequency in range 1 KHz - 5 MHz.
18. (Withdrawn) The method of claim 1 wherein the particle comprises a reservoir of mechanically retained medication and the application of the magnetic field to the

nanoparticles provides mechanical damage to the reservoir to effect delivery of the medication.

19. (Withdrawn) The method of claim 18 wherein the magnetic field provides mechanical damage to the particle by moving it to wear away portions of the particle.

20. (Withdrawn) The method of claim 18 wherein the magnetic field provides mechanical damage to the particle by moving nanoparticles within the particle.

21. (Withdrawn-Previously Presented) The method of claim 1 wherein the step of applying a magnetic field to the particles comprises an application of a magnetic field to structurally damage the target cell by rotating or oscillating the nanoparticles and an application of a second magnetic field to thermally damage the target cell by heating the nanoparticles.

22. (Previously Presented) The method of claim 1 wherein the particles comprise a heat sensitive reservoir of medication and the application of the magnetic field to the nanoparticles provides heat to effect delivery of the medication and to damage the target cell by heat.

23. (Withdrawn-Previously Presented) The method of claim 1 wherein the particles comprise a reservoir of mechanically retained medication and the application of the magnetic field comprises an application of a first magnetic field to mechanically damage to the

reservoir to effect delivery of the medication and an application of a second magnetic field to heat the nanoparticles for thermal damage to the target cell.

24. (Previously Presented) The method of claim 1 further comprising the step of confirming the contact of the particles to target cell prior to applying the magnetic field.

25. (Previously Presented) The method of claim 22 wherein the contact is confirmed by MRI imaging.

26-28. (Cancelled)